

APPARATUS AND METHOD FOR AN ULTRA NARROW BAND WIRELESS
COMMUNICATIONS METHOD

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Abstract of the Disclosure

A wireless digital transmitting and receiving method and apparatus combining abrupt phase change modulation with an ultra narrow band filter to remove the sidebands, resulting in a single frequency being transmitted to carry the data. The
10 method examines and detects the changes in the carrier product only, after filtering to remove or reduce all sidebands, to obtain a usable signal. Only a single frequency with phase changes is transmitted. An ultra narrow band filter, having a rapid rise time and near zero group delay, passes the near instantaneous modulation changes of phase in the carrier.